

Rosa Ponterio

List of Publications by Year in descending order

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76
papers

1,057
citations

361388

20
h-index

501174

28
g-index

77
all docs

77
docs citations

77
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	Epoxy-silica polymers as stone conservation materials. <i>Polymer</i> , 2005, 46, 1857-1864.	3.8	62
2	Spectroscopic techniques applied to the characterization of decorated potteries from Caltagirone (Sicily, Italy). <i>Journal of Molecular Structure</i> , 2005, 744-747, 827-831.	3.6	55
3	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. <i>Journal of Imaging</i> , 2018, 4, 47.	3.0	50
4	Raman scattering measurements on a floating water bridge. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 175405.	2.8	48
5	Experimental Evidence of Slow Dynamics in Semidilute Polymer Solutions. <i>Macromolecules</i> , 1999, 32, 1128-1133.	4.8	37
6	Raman spectroscopic study of water in the poly(ethylene glycol) hydration shell. <i>Journal of Molecular Structure</i> , 1996, 381, 207-212.	3.6	36
7	Raman and scanning electron microscopy and energy-dispersive x-ray techniques for the characterization of colouring and opaquening agents in Roman mosaic glass tesserae. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 622-627.	2.5	36
8	Epoxy-silica polymers as restoration materials. Part II. <i>Polymer</i> , 2003, 44, 4435-4441.	3.8	34
9	Materials analysis opportunities on the new neutron imaging facility IMAT@ISIS. <i>Journal of Instrumentation</i> , 2016, 11, C03014-C03014.	1.2	31
10	Stability of hydrolytic arsenic species in aqueous solutions: As ³⁺ vs. As ⁵⁺ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23272-23280.	2.8	30
11	Optical, morphological and spectroscopic characterization of graphene on SiO ₂ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1251-1255.	0.8	27
12	Communication: An extended model of liquid bridging. <i>Journal of Chemical Physics</i> , 2010, 133, 081104.	3.0	27
13	Excess Thermodynamic Properties in Mixtures of a Representative Room-Temperature Ionic Liquid and Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10202-10207.	2.6	26
14	SERS and DFT study of indigo adsorbed on silver nanostructured surface. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 205, 465-469.	3.9	24
15	Surface-enhanced Raman scattering study of organic pigments using silver and gold nanoparticles prepared by pulsed laser ablation. <i>Applied Surface Science</i> , 2013, 272, 36-41.	6.1	23
16	Silver nanoparticles behave as hydrophobic solutes towards the liquid water structure in the interaction shell. A Raman study in the O-H stretching region. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11258.	2.8	22
17	Confocal Raman spectroscopic study of painted medieval manuscripts. <i>Journal of Cultural Heritage</i> , 2001, 2, 191-198.	3.3	21
18	Brillouin Scattering Evidence of Nonideal Mixing in Methanol/CCl ₄ Mixtures. <i>Journal of Physical Chemistry B</i> , 2004, 108, 732-736.	2.6	21

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19	Excess compressibility in binary liquid mixtures. <i>Journal of Chemical Physics</i> , 2007, 126, 224508.	3.0	21
20	Structure of bulk water from Raman measurements of supercooled pure liquid and LiCl solutions. <i>Physical Review B</i> , 2012, 86, .	3.2	20
21	SERS activity of silver and gold nanostructured thin films deposited by pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 347-351.	2.3	19
22	Electric-Field-Induced Effects on the Dipole Moment and Vibrational Modes of the Centrosymmetric Indigo Molecule. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10856-10869.	2.5	18
23	Egyptian metallic inks on textiles from the 15th century BCE unravelled by non-invasive techniques and chemometric analysis. <i>Scientific Reports</i> , 2019, 9, 7310.	3.3	17
24	A multivariate statistical approach of X-ray fluorescence characterization of a large collection of reverse glass paintings. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 159, 105655.	2.9	16
25	The autofocusing system of the IMAT neutron camera. <i>Review of Scientific Instruments</i> , 2013, 84, 093701.	1.3	15
26	Raman spectroscopy of organic dyes adsorbed on pulsed laser deposited silver thin films. <i>Applied Surface Science</i> , 2013, 278, 259-264.	6.1	15
27	Laser Controlled Synthesis of Noble Metal Nanoparticle Arrays for Low Concentration Molecule Recognition. <i>Micromachines</i> , 2014, 5, 1296-1309.	2.9	15
28	The Tomb of the Diver and the frescoed tombs in Paestum (southern Italy): New insights from a comparative archaeometric study. <i>PLoS ONE</i> , 2020, 15, e0232375.	2.5	15
29	Chemometric Tools to Point Out Benchmarks and Chromophores in Pigments through Spectroscopic Data Analyses. <i>Molecules</i> , 2022, 27, 163.	3.8	15
30	Evidence of Heterogeneous Aggregation in Methanol/CCl ₄ Mixtures: A Brillouin Scattering Investigation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12972-12977.	2.6	14
31	A neutron study of sealed pottery from the grave-goods of Kha and Merit. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1342-1347.	3.0	14
32	Removal of As(III) from Biological Fluids: Mono- versus Dithiolic Ligands. <i>Chemical Research in Toxicology</i> , 2020, 33, 967-974.	3.3	14
33	A Multi-Analytical Study for the Enhancement and Accessibility of Archaeological Heritage: The Churches of San Nicola and San Basilio in Motta Sant'Agata (RC, Italy). <i>Remote Sensing</i> , 2021, 13, 3738.	4.0	14
34	A COMBINED STUDY OF ART WORKS PRESERVED IN THE ARCHAEOLOGICAL MUSEUMS: 3D SURVEY, SPECTROSCOPIC APPROACH AND AUGMENTED REALITY. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W11, 201-207.	0.2	13
35	Supercooled water escaping from metastability. <i>Scientific Reports</i> , 2014, 4, 7230.	3.3	12
36	A combination of portable non-invasive techniques to study on reverse glass paintings at Mistretta museum. <i>Microchemical Journal</i> , 2019, 146, 640-644.	4.5	12

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37	A ground level interpretation of the dielectric behavior of diluted alcohol-in-carbon tetrachloride mixtures. <i>Journal of Chemical Physics</i> , 2003, 119, 10771-10776.	3.0	11
38	Quasi-elastic light scattering in polymer-containing microemulsion. <i>Journal of Molecular Structure</i> , 1996, 383, 171-175.	3.6	10
39	Interaction between As(III) and Simple Thioacids in Water: An Experimental and ab Initio Molecular Dynamics Investigation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6090-6098.	2.6	10
40	Arsenicâ€“nucleotides interactions: an experimental and computational investigation. <i>Dalton Transactions</i> , 2020, 49, 6302-6311.	3.3	10
41	Some Evidence of Scaling Behavior in the Relaxation Dynamics of Aqueous Polymer Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1614-1620.	2.6	9
42	Laser induced breakdown spectroscopy for the analysis of archaeological dyes from Licata (Sicily). <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 535-543.	1.2	8
43	Collective acoustic modes in liquids: A comparison between the generalized-hydrodynamics and memory-function approaches. <i>Physical Review E</i> , 2011, 84, 051202.	2.1	8
44	Non-Invasive Investigation of Pigments of Wall Painting in S. Maria Delle Palate di Tusa (Messina, Italy). <i>Heritage</i> , 2019, 2, 2398-2407.	1.9	8
45	New automatic system for multipass Fabry-PÃ©rot alignment and stabilization. <i>Review of Scientific Instruments</i> , 2006, 77, 113104.	1.3	7
46	Identifying the Unknown Content of an Ancient Egyptian Sealed Alabaster Vase from Kha and Meritâ€™s Tomb Using Multiple Techniques and Multicomponent Sample Analysis in an Interdisciplinary Applied Chemistry Course. <i>Journal of Chemical Education</i> , 2021, 98, 461-468.	2.3	7
47	Understanding the behaviour of carnosine in aqueous solution: an experimental and quantum-based computational investigation on acidâ€“base properties and complexation mechanisms with Ca ²⁺ and Mg ²⁺ . <i>New Journal of Chemistry</i> , 2021, 45, 20352-20364.	2.8	7
48	Hydrolysis of Al ³⁺ in Aqueous Solutions: Experiments and Ab Initio Simulations. <i>Liquids</i> , 2022, 2, 26-38.	2.5	6
49	Viscosity and photon correlation spectroscopy measurements in aqueous solutions of poly(ethylene Tj ETQq1 1 0.784314 rgBT /Ove	3.6	5
50	Excess thermodynamic properties in liquid binary mixtures. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 220-226.	2.5	5
51	Is electrospray emission really due to columbic forces?. <i>AIP Advances</i> , 2014, 4, .	1.3	5
52	A theatrical double-faced mask preserved at the Museum of Lipari (Messina): study and 3D reconstruction through portable equipment. <i>Virtual Archaeology Review</i> , 2021, 12, 39.	1.9	5
53	The silver collection of San Gennaro treasure (Neaples): A multivariate statistic approach applied to X-ray fluorescence data. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106171.	2.9	5
54	TIMEâ€“OFâ€“FLIGHT NEUTRON DIFFRACTION CHARACTERIZATION OF CERAMIC FINDINGS FROM SOUTHERN AND WESTERN SICILY*. <i>Archaeometry</i> , 2009, 51, 568-575.	1.3	4

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55	Combined 3D Surveying and Raman Spectroscopy Techniques on Artifacts Preserved at Archaeological Museum of Lipari. <i>Heritage</i> , 2019, 2, 2017-2027.	1.9	4
56	Non-invasive characterization of the pigmentâ€™s palette used on the painted tomb slabs at Paestum archaeological site. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 949, 012002.	0.6	4
57	High-frequency propagating density fluctuations in deeply supercooled water: Evidence of a single viscous relaxation. <i>Physical Review E</i> , 2013, 87, 022303.	2.1	3
58	Volume crossover in deeply supercooled water adiabatically freezing under isobaric conditions. <i>Journal of Chemical Physics</i> , 2013, 138, 184504.	3.0	3
59	Reversible hydrogen absorption in a Ti-6Al-4V alloy produced by mechanical alloying. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15540-15548.	7.1	3
60	Role of pH on Nanostructured SERS Active Substrates for Detection of Organic Dyes. <i>Molecules</i> , 2021, 26, 2360.	3.8	3
61	Electrically induced birefringence in nanoparticle dispersions for electrorheological applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 465301.	2.8	3
62	The Church of S. Maria Delle Palate in Tusa (Messina, Italy): Digitization and Diagnostics for a New Model of Enjoyment. <i>Remote Sensing</i> , 2022, 14, 1490.	4.0	3
63	Binding of Arsenic by Common Functional Groups: An Experimental and Quantum-Mechanical Study. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3210.	2.5	3
64	On the Origin of Excess Thermodynamic Quantities in Liquid Mixtures. <i>Oil and Gas Science and Technology</i> , 2008, 63, 353-361.	1.4	2
65	Enhancement of electrorheological effect by particle-fluid interaction. <i>Physical Review E</i> , 2013, 87, 062304.	2.1	2
66	PHOTOGRAMMETRIC TECHNIQUES FOR THE RECONSTRUCTION OF UNDERWATER 3D MODELS OF SEABED AND ARTIFACTS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W10, 25-30.	0.2	2
67	Brillouin scattering investigation of ME6N liquid crystal in CCl4. <i>Journal of Molecular Liquids</i> , 2010, 153, 67-71.	4.9	1
68	Neolithic ceramic findings from western Sicily. Chemical-physical and mineralogical characterization. <i>Annali Di Chimica</i> , 2001, 91, 803-12.	0.6	1
69	Digitization of two urban archaeological areas in Reggio Calabria (Italy): Roman Thermae and Greek fortifications. <i>Journal of Archaeological Science: Reports</i> , 2022, 43, 103441.	0.5	1
70	Micro-spectroscopic techniques applied to characterization of varnished archeological findings. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
71	Beta-ray technique applied to the study and reproduction of ancient watermarks. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
72	Mechanical properties characterization of Sicilian lithoid materials by computer-aided speckle interferometry. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0

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73	Relaxation processes in polymer-salt complexes. Colloid and Polymer Science, 2003, 281, 882-886.	2.1	0
74	Relaxation dynamics and evidence of scaling behaviours in aqueous polymer solutions. Journal of Molecular Liquids, 2011, 159, 105-111.	4.9	0
75	Kovacs Effect and the Relation Between Glasses and Supercooled Liquids. , 2018, , 139-152.		0
76	Dynamical properties of highly entangled polyalkylmethacrylate solutions : A comparative study. European Physical Journal Special Topics, 2000, 10, Pr7-321-Pr7-324.	0.2	0